

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/625,546	07/24/2003	Yutaka Hirose	YMOR:294	8197
6160 759	- 00/03/2004		EXAMINER	
PARKHURST & WENDEL, L.L.P. 1421 PRINCE STREET			PAREKH, NITIN	
SUITE 210			ART UNIT	PAPER NUMBER
ALEXANDRIA	, VA 22314-2805		2811	
			DATE MAILED: 06/03/2004	· .

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action 2	10/625,546	HIROSE ET AL.	
Office Action Summary	Examiner	Art Unit	
and have an entered and the second second members to the part of the second processing and processing to	Nitin Parekh	2811	early on as you
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence addres	is
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period was a failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from	nely filed s will be considered timely. the mailing date of this commu	nication.
Status	*		. ;
1) Responsive to communication(s) filed on 24 Ju	ilv 2003	• *	*
l . -	action is non-final.		•
3)☐ Since this application is in condition for allowan	ice except for formal matters, pro-	secution as to the me	rite ie
closed in accordance with the practice under $m{E}$	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213	113 13
Disposition of Claims			
<u> </u>			
4) Claim(s) <u>1-4</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed.	/n from consideration.		
6) Claim(s) is/are allowed.			•
7) Claim(s) is/are objected to.			•
	*	* ***	* •
8)⊠ Claim(s) <u>1-4</u> are subject to restriction and/or ele	ection requirement.		
Application Papers			
9)☐ The specification is objected to by the Examiner.	©		
10) ☐ The drawing(s) filed on is/are: a) ☐ acce		vaminor	
Applicant may not request that any objection to the d	rawing(s) be held in abeyance. See	37 CFR 1 85(a)	
Replacement drawing sheet(s) including the correction	on is required if the drawing(s) is obje	cted to See 37 CFR 1 1	21(d)
11)☐ The oath or declaration is objected to by the Exa	miner. Note the attached Office	Action or form PTO-15	2.
Priority under 35 U.S.C. § 119	* · · · · · · · · · · · · · · · · · · ·		
			•
12) ☐ Acknowledgment is made of a claim for foreign p a) ☐ All b) ☐ Some * c) ☐ None of:	phonity under 35 U.S.C. § 119(a)-((d) or (f).	
			•
	have been received in Application	1 No	
— , and an action of the priority	y documents have been received	in this National Stage) ¹
application from the International Bureau ((PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list of	the certified copies not received.		· · ·
Attachment(s)			hel
1) Notice of References Cited (PTO-892)	. C	•	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (P Paper No(s)/Mail Date	TO-413)	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		ent Application (PTO-152)	
Paper No(s)/Mail Date	6)		
5. Patent and Trademark Office TOL-326 (Rev. 1-04)			

Art Unit: 2811

DETAILED ACTION

Election/Restriction

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claim 4, drawn to a semiconductor device, classified in class 257, subclass 750.
 - II. Claim 1-3, drawn to a method of making a semiconductor device, classified in class 438, subclass 652.
- 2. The inventions are distinct, each from the other because of the following reasons: Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case unpatentability of Group I invention would not necessarily imply unpatentability of the process of the group II invention, since the device of group I invention could be made by the processes different from those of group II invention. For example, diffusing the silicon by performing a rapid thermal anneal (RTA) at different temperature/time conditions instead of the heat treatment at 500-1100 deg. C.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Art Unit: 2811

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nitin Parekh whose telephone number is 571-272-1663. The examiner can normally be reached on 09:00AM-05:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9318.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

NP

. ...

05-30-04

Notin Pareth

PATENT EXAMINER

TECHNOLOGY CENTER 2800